EXHIBIT 1

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

98929 7590 03/02/2016 McDonnell Boehnen Hulbert & Berghoff LLP/Google Inc. 300 South Wacker Drive, Suite 3100 Chicago, IL 60606 EXAMINER
HELLNER, MARK

ART UNIT PAPER NUMBER
3645

DATE MAILED: 03/02/2016

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/132.219	12/18/2013	Samuel William Lenius	13-884-US	9816

TITLE OF INVENTION: LASER DIODE FIRING SYSTEM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	06/02/2016

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED.</u> SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

maintenance fee notifica	ations.			, , , ,		•		., .	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
98929 7590 03/02/2016 McDonnell Boehnen Hulbert & Berghoff LLP/Google Inc. 300 South Wacker Drive, Suite 3100				Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.					
Chicago, IL 606		U			(Depositor's name				
Cincago, 11. 00000									(Signature)
									(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO. CONFIRMATION N		
14/132,219	12/18/2013	•		Samuel William Ler	iius			13-884-US	9816
TITLE OF INVENTION	N: LASER DIODE FIRIN	NG SYSTEM	М						
APPLN. TYPE	ENTITY STATUS	ISSUE	FEE DUE	PUBLICATION FEE D	DUE PREV. PAID ISSU		E FEE TOTAL FEE(S) DUE		DATE DUE
nonprovisional	UNDISCOUNTED	\$	960	\$0		\$0		\$960	06/02/2016
EXAM	MINER	ART	T UNIT	CLASS-SUBCLASS	3				
	R, MARK	l	645	356-005050					
	lence address or indicatio			2. For printing on	the pa	atent front page. lis	st		
CFR 1.363).			,	(1) The names of up to 3 registered patent attorneys 1					
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			espondence	or agents OR, alternatively, (2) The name of a single firm (having as a member a 2					
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			form Customer	registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
	AND RESIDENCE DATA			•	• •				
PLEASE NOTE: Ur recordation as set for	lless an assignee is ident th in 37 CFR 3.11. Com	tified below pletion of th	, no assignee is form is NO	data will appear on the Ta substitute for filing	he pa g an a	itent. If an assign assignment.	ee is ic	lentified below, the d	ocument has been filed for
(A) NAME OF ASSI	IGNEE			(B) RESIDENCE: (C	CITY	and STATE OR C	COUNT	TRY)	
Please check the approp	riate assignee category or	r categories	(will not be pr	rinted on the patent):		Individual 🗖 Co	orporati	ion or other private gro	oup entity 🗖 Government
4a. The following fee(s)	are submitted:		41	o. Payment of Fee(s): (Plea	se first reapply ar	ıy prev	viously paid issue fee	shown above)
Issue Fee		1		A check is enclosed.					
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any						
				overpayment, to I)epo	sit Account Number	er	(enclose a	n extra copy of this form).
5. Change in Entity Sta	atus (from status indicate	d above)							
Applicant certifyi	ng micro entity status. Se	ee 37 CFR 1	.29	NOTE: Absent a vali	id cei	tification of Micro	Entity	Status (see forms PTG accepted at the risk of	O/SB/15A and 15B), issue application abandonment.
☐ Applicant asserting small entity status. See 37 CFR 1.27			NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.						
Applicant changing to regular undiscounted fee status.			NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.						
NOTE: This form must	be signed in accordance v	with 37 CFR	R 1.31 and 1.3	3. See 37 CFR 1.4 for	signa	ture requirements	and cei	tifications.	
Authorized Signature	·					Date			
_						Registration N	Īo.		
Typed or printed name						0			

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14/132,219	14/132,219 12/18/2013 Samuel William Lenius		13-884-US	9816		
98929 75	90 03/02/2016	EXAMINER				
McDonnell Boehnen Hulbert & Berghoff			HELLNER, MARK			
	LLP/Google Inc. 300 South Wacker Drive, Suite 3100		ART UNIT	PAPER NUMBER		
Chicago, IL 60606			3645			
			DATE MAILED: 03/02/201	6		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

	Application No. 14/132,219	Applicant(s) LENIUS ET AL.				
Notice of Allowability	Examiner MARK HELLNER	Art Unit 3645	AIA (First Inventor to File) Status Yes			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included the rewrith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS IOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.						
This communication is responsive to A declaration(s)/affidavit(s) under 37 CFR 1.130(b) was/v	vere filed on					
2. An election was made by the applicant in response to a restriction requirement set forth during the interview on; the restriction requirement and election have been incorporated into this action.						
 The allowed claim(s) is/are 1-20. As a result of the allowed claim Highway program at a participating intellectual property office http://www.uspto.gov/patents/init_events/pph/index.jsp or sendents 	for the corresponding application. F	or more inform				
Certified copies: a) All b) Some *c) None of the: 1. Certified copies of the priority documents have to 2. Certified copies of the priority documents have to 3. Copies of the certified copies of the priority documents have to 1. Copies of the certified copies of the priority documents have to 1. Copies of the certified copies of the priority document international Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. CORRECTED DRAWINGS (as "replacement sheets") must be including changes required by the attached Examiner's Paper No./Mail Date Including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the attached Examiner's comment regarding REQUIREMENT FOR Attachment(s)	this communication to file a reply country of this application. The submitted. Amendment / Comment or in the Offer the description of the drawing the header according to 37 CFR 1.121(d) DLOGICAL MATERIAL must be submitted.	entional stage and complying with the fice action of the front (n). In the front the	he requirements not the back) of			
 Notice of References Cited (PTO-892) Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7/7/2014; 1/13/2014 Examiner's Comment Regarding Requirement for Deposit of Biological Material Interview Summary (PTO-413), 	5. ☐ Examiner's Amendn 6. ☑ Examiner's Stateme 7. ☐ Other					
Paper No./Mail Date /MARK HELLNER/ Primary Examiner, Art Unit 3645						

Page 2

Application/Control Number: 14/132,219

Art Unit: 3645

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The cited prior art at least does not teach or suggest the use of an inductor as set forth by the entire context of claims 1-20. A typical laser driver circuit is disclosed by Mark et al (9,185,762), figure 1:

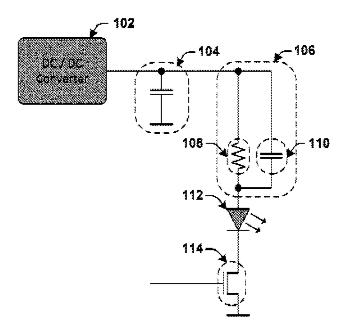


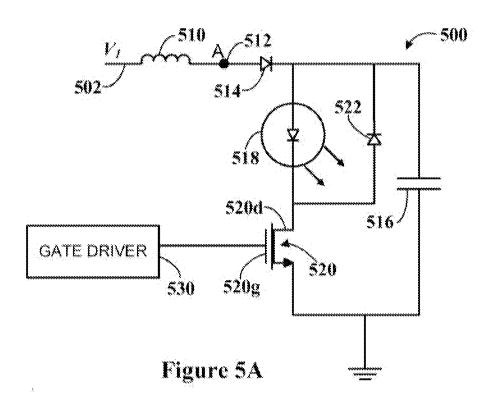
Fig. 1

This device does not teach or suggest the configuration shown by figure 5A of the present application:

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Application/Control Number: 14/132,219

Art Unit: 3645



Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication should be directed to MARK HELLNER at telephone number (571)272-6981.

/MARK HELLNER/

Primary Examiner, Art Unit 3645